Master of Science Programme in Science and Technology Education (International Programme)

หลักสูตร วิทยาศาสตรมหาบัณฑิต   สาขาวิชา วิทยาศาสตร์และเทคโนโลยีศึกษา (หลักสูตรนานาชาติ)(ภาคปกติ)

Institute for Innovation Learning

สถาบันนวัตกรรมการเรียนรู้

Expected number of students to be accepted all year round :   10   Students

Admission Requirements

Plan A (2)

1. Hold a Bachelor's degree in any field of basic science, education, art (major in science, mathematics, and technology), and health science

2. Have a minimum grade point average of 2.5;

3. Have qualified English skills in listening, speaking, reading, and writing

4. Submit a certificate of English proficiency with minimum admission score:

   - IELTS   - at least 3 or
   - TOEFL INTERNET BASED - at least 32   or
   - TOEFL ITP (test arranged by Faculty of Graduate Study, Mahidol University) - at least 400 or
   - MU GRAD TEST(Computer based)- at least 36

   Important Notes:
   - English proficiency score must be taken within 2 years up to the admission date.
   - Application without submitting a valid English certificate will NOT be considered.
   - MU English Competence Standards: www.grad.mahidol.ac.th
   - MU English proficiency tests, please contact the Language Center, Faculty of Graduate Studies. Tel. 0-2441-4125 ext. 221-222

5. Exemption from the above conditions may be granted by the Programme Committee under exceptional circumstances.

Written Examination (Applicants must attend the examination date accurately to your admission round)

Subjects for examination (Foundation/Specific subjects, if any)	Time (Morning session)
1. Science &Technology Specialty. (Choose one field of study from the following Subjects :) - Chemistry - Biology - Physics - Mathematics - Computer Science	9.00 - 12.00 a.m.
Examination Place Mahidol University , Salaya , Nakhonpathom more details : www.grad.mahidol.ac.th	

Curriculum Structure

	Credit
Pre-requisite Courses	-
Required Courses	12
Elective Courses no less than	12
Thesis	12

	Credit
Pre-requisite Courses	
ILSE 603 Basic Knowledge in Education	2(2-0-4)
Required Courses	
ILSE 601 Science Teaching	2(2-0-4)
ILSE 608 Evolution of Science, Mathematics, and Technology	2(2-0-4)
ILSE 613 Innovations in Science and Technology Education	3(3-0-6)
ILSE 616 Research in Science and Technology Education	3(3-0-6)
ILSE 623 Seminar in Science and Technology Education	1(1-0-2)
ILSE 624 Seminar in Innovative Learning	1(1-0-2)

Electives Courses no less than 12 credits

ILSE 604 Computers and Other Technologies in Science Teaching	3(3-2-5)
ILSE 606 Mini Project Research in Science, Mathematics and Technology Education	4(0-12-4)
ILSE 614 Scientific Attitude for Science Educators	2(2-0-4)
ILSE 625 Chemistry Education	2(2-0-4)
ILSE 631 Biology Education	2(2-0-4)
ILSE 642 Physics Education	2(2-0-4)
ILSE 652 Mathematics Education	2(2-0-4)
ILSE 653 Computer Science Education	2(2-0-4)
ILSE 654 Technology Education	2(2-0-4)
ILSE 655 Measurement and Evaluation in Education	2(2-0-4)

Thesis

ILSE 698 Thesis	12(0-48-0)

* These may change in cases where there are suggestions for the improvement of the curriculum

Additional advantages of the programme
To produce graduates who are able to research and develop educational innovations, to manage learning in appropriate way and correspond to social context, and to effectively and efficiency transform knowledge in science, mathematics, and technology.

Details of Scholarships
1. Scholarship of the 60th Year of the Supreme Reign of His Majesty King Bhumibol Adulydej.
2. Grant for Research Presentation at International Conference

Additional Information for Applicants
Research project emphasize on research in innovation and development of learning process. Multimedia for teaching and learning are created anew and adapted from generally available materials.

Application Process
Application is only available via online application at www.grad.mahidol.ac.th

Required Documents

Applicants must upload all documents via online admission system. All documents must be in PDF format (maximum size 2 MB). Photograph must be in JPEG format

- Recent photographs (1x1 inch in size)
- A copy of an applicant's degree certificate or a letter of graduation certification (for an applicant with a degree completion)
- A letter certifying that an applicant is currently in the final year prior to graduation (for an applicant seeking for a degree)
- A detailed transcript of a degree (for an applicant with a degree completion)
- A grade report with course names and grades received from the first to the current semester prior to graduation
- A copy of identification card
- A copy of house registration certification
- A copy of Certificate of English proficiency :

    IELTS / TOEFL INTERNET BASED / TOEFL ITP / MU GRAD TEST(Computer based)
- A copy of proof of payment.

Job option after graduation

- Teacher and professional in science, mathematics, and technology education
- Educator and researcher in science, mathematics, and technology education

Further information may be obtained from the Director of Graduate Studies, Science and Technology Education:

1. Dr. Parames Laosinchai (E-mail : parames.lao@mahidol.ac.th)
   Room 216, Panyaphiphat Building, Floor 2, Science and Technology Education
   Institute for Innovation Learning, Mahidol University, Salaya
   Tel. : 0 2441 9723 Ext. 2011

2. Dr. Pratchayapong Yasri (E-mail : pratchayapong.yas@mahidol.edu)
   Room 226, Panyaphiphat Building, Floor 2, Science and Technology Education
   Institute for Innovation Learning, Mahidol University, Salaya
   Tel. : 0 2441 9723 Ext. 2016

Program Coordinator

Mr.Jaturong Payomyam (E-mail : jaturong.pay@mahidol.edu)
Room IL2, Institute for Innovative Learning Building, Floor 1, Science and Technology Education
Institute for Innovation Learning, Mahidol University, Salaya
Tel. : 0 2441 9729 Fax. : 0 2441 9734

<u>Notes</u> 1. The programme of Science and Technology Education requires students to study
the pre - requisite course:
- ILSE 603 Basic Knowledge in Education   2 Credits
- SCID 500 Cell and Molecular Biology   3 Credits

2. For more education information : **www.grad.mahidol.ac.th**

For more information please contact The Student Admission Section.
Tel . 0 2441 4125 ext. 208-210 , 0 2441 9129, E-mail : gradthai@mahidol.ac.th